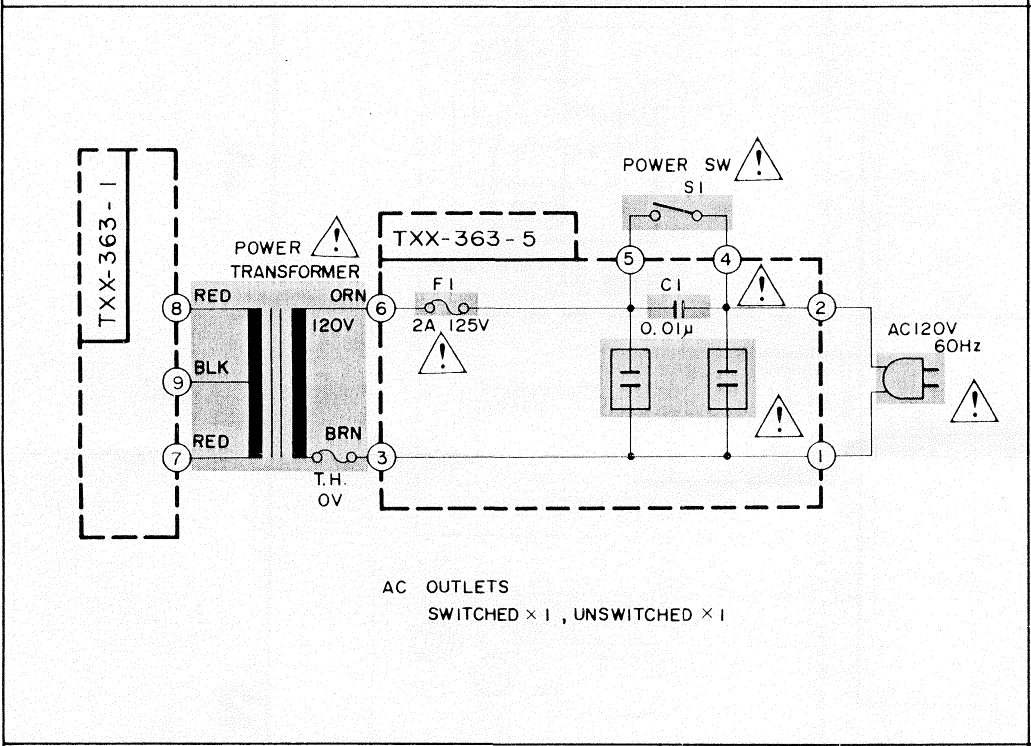
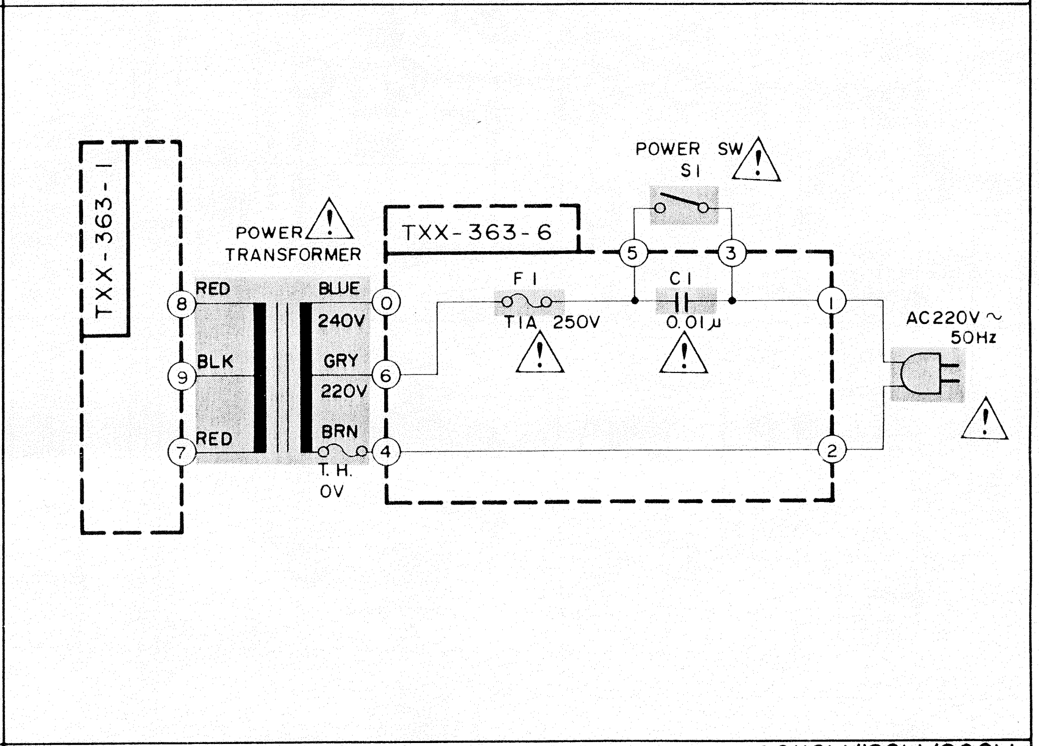
(J) FOR U.S.A. (C) FOR CANADA AC120V 60Hz

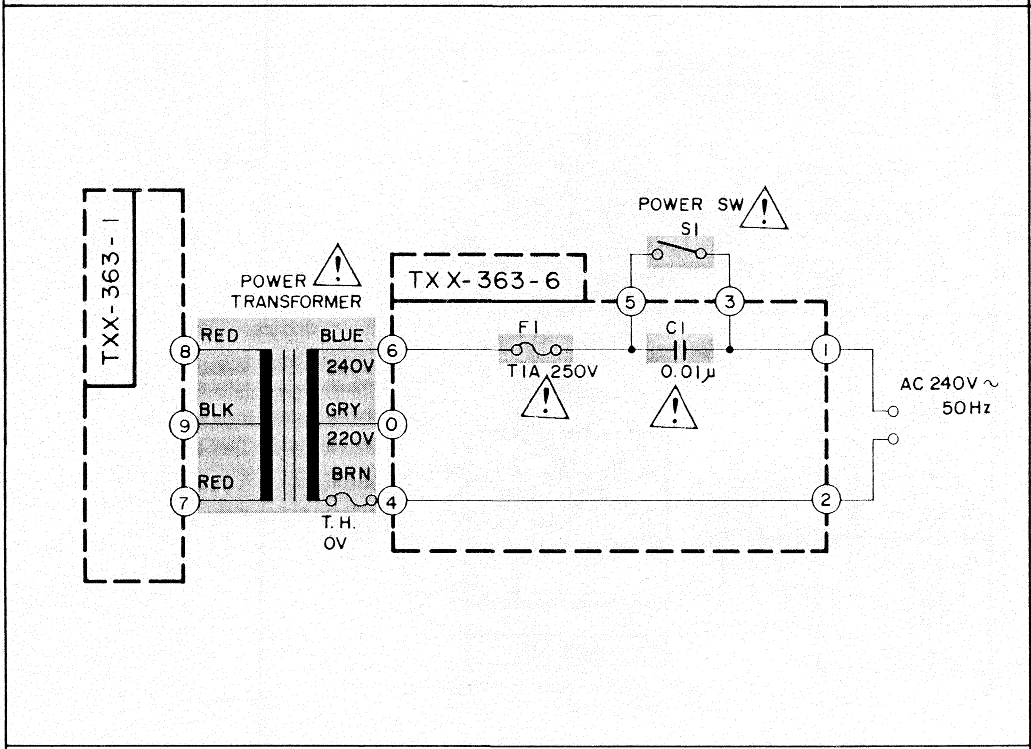

TXX-363-1
POWER TRANSFORMER
RED
BLK
RED
ORN
120V
BRN
T.H. 0V
TXX-363-5
F1
2A 125V
POWER SW
S1
C1
0.01μ
AC120V 60Hz
8
9
7
6
3
5
4
2
1

AC OUTLETS
SWITCHED × 1 , UNSWITCHED × 1

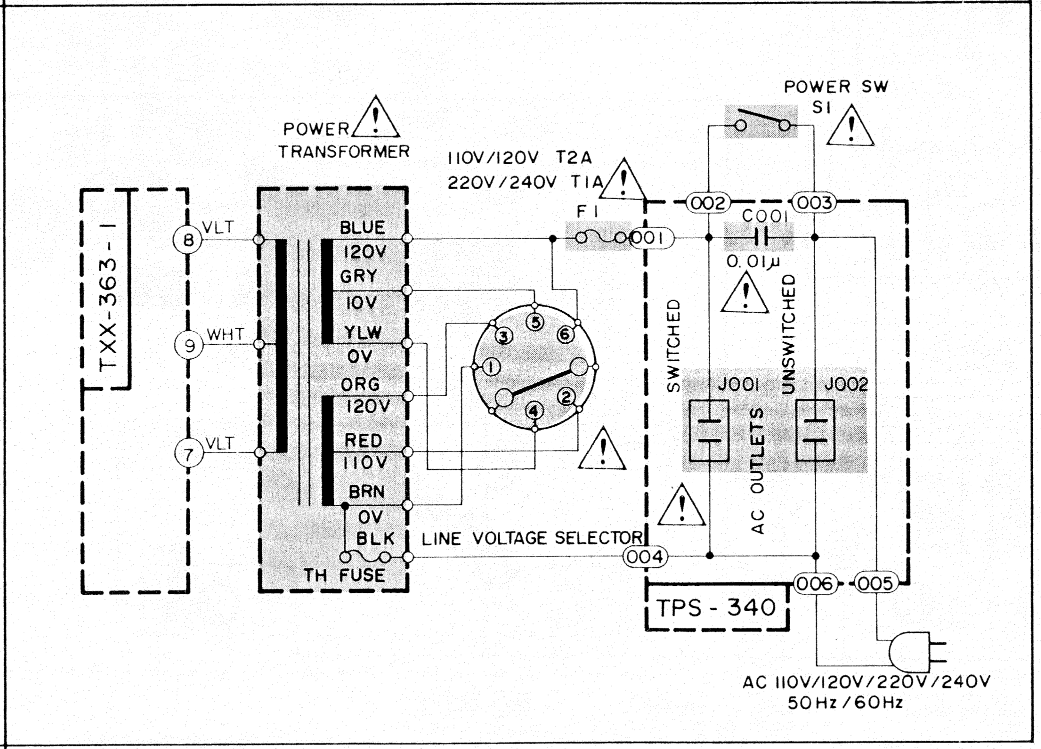
(E) FOR CONTINETAL EUROPE (G) WEST GERMANY AC220V～50Hz


TXX-363-1
POWER TRANSFORMER
RED
BLK
RED
BLUE
240V
GRY
220V
BRN
T.H. 0V
TXX-363-6
F1
T1A 250V
POWER SW
S1
C1
0.01μ
AC220V～ 50Hz
8
9
7
0
6
4
5
3
1
2

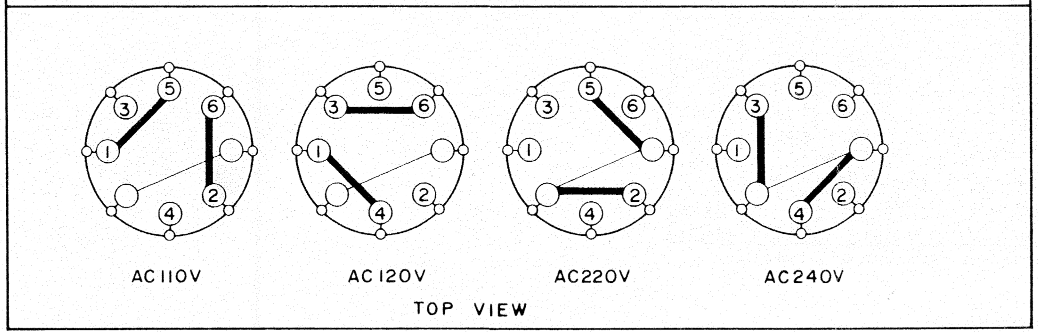
(BS) FOR U.K. (A) FOR AUSTRALIA AC 240V～50Hz


TXX-363-1
POWER TRANSFORMER
RED
BLK
RED
BLUE
240V
GRY
220V
BRN
T.H. 0V
TXX-363-6
F1
T1A 250V
POWER SW
S1
C1
0.01μ
AC 240V～ 50Hz
8
9
7
6
0
4
5
3
1
2

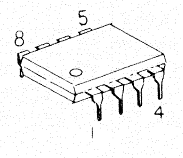
(U) FOR OTHER COUNTRIES (P) FOR U.S. MILITARY AC110V/120V/220V 240V 50/60Hz


TXX-363-1
VLT
WHT
VLT
8
9
7
POWER TRANSFORMER
BLUE
120V
GRY
10V
YLW
0V
ORG
120V
RED
110V
BRN
0V
BLK
TH FUSE
110V/120V T2A
220V/240V T1A
F1
001
POWER SW
S1
002
003
C001
0.01μ
SWITCHED
UNSWITCHED
J001
J002
AC OUTLETS
LINE VOLTAGE SELECTOR
004
TPS-340
006
005
AC 110V/120V/220V/240V 50Hz/60Hz

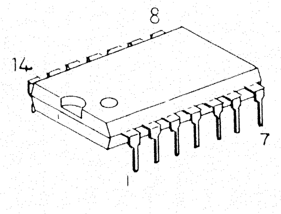
VOLTAGE SELECTOR CONNECTION

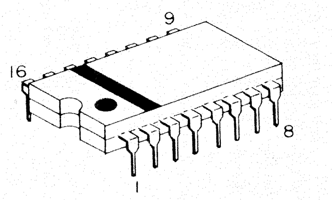

1
2
3
4
5
6
AC110V
AC120V
AC220V
AC240V

TOP VIEW

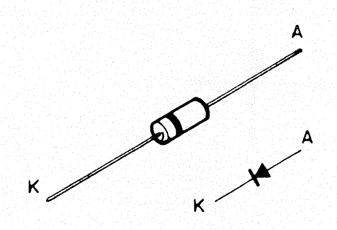


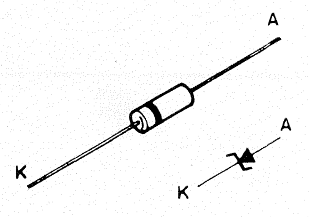
IC301 : NJM4558D
IC401 : NJM4558D-D

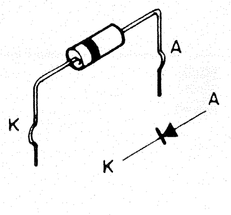




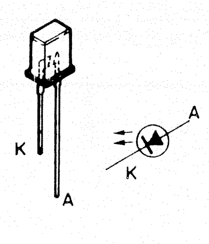
IC201 : TA7612AP
IC202, 203 : TC9145P



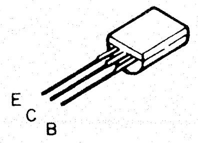




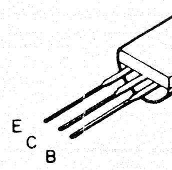
D801 – 804 : S3V20F



D211 – 214 : GL-9NG230

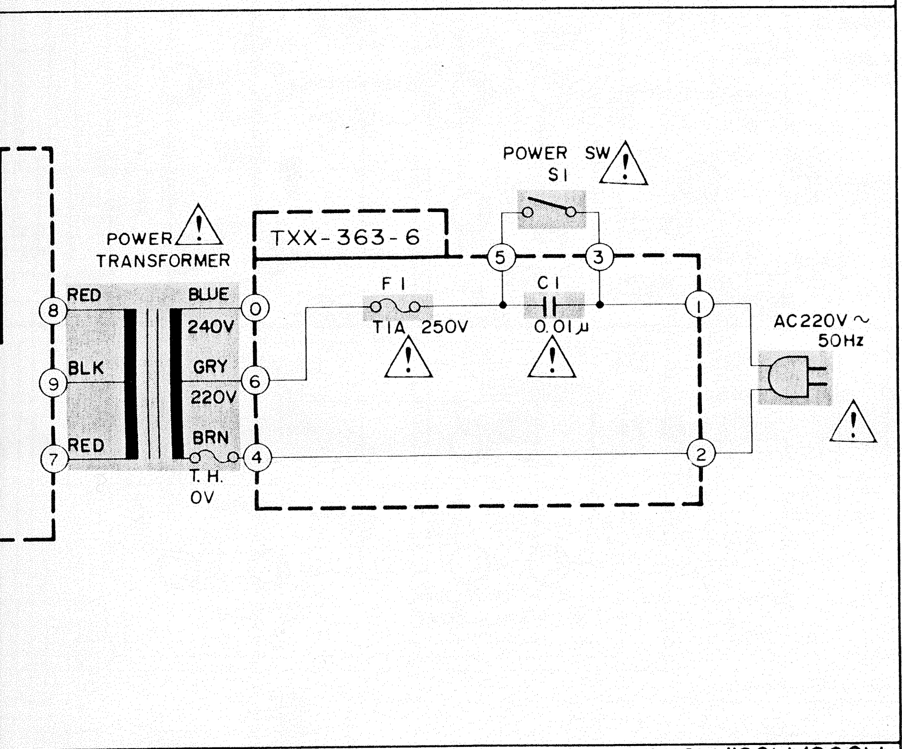


Q501 – 504 : 2SD655(E, F)
Q505, 506 : 2SC458(C)
Q701 – 704 : 2SC1775AV(F1)
Q705, 706 : 2SA1084(D, E)
Q709 – 712 : 2SC2546(E, F)
Q713, 714 : 2SA1084(D, E)
Q804, 805 : 2SA733A(P, Q)
Q901 : 2SA733A(P, Q)
Q902 : 2SA970(GR, BL)
Q903 : 2SA733A(P, Q)
Q904 : 2SD655(E, F)
Q951, 952 : 2SC458(C)

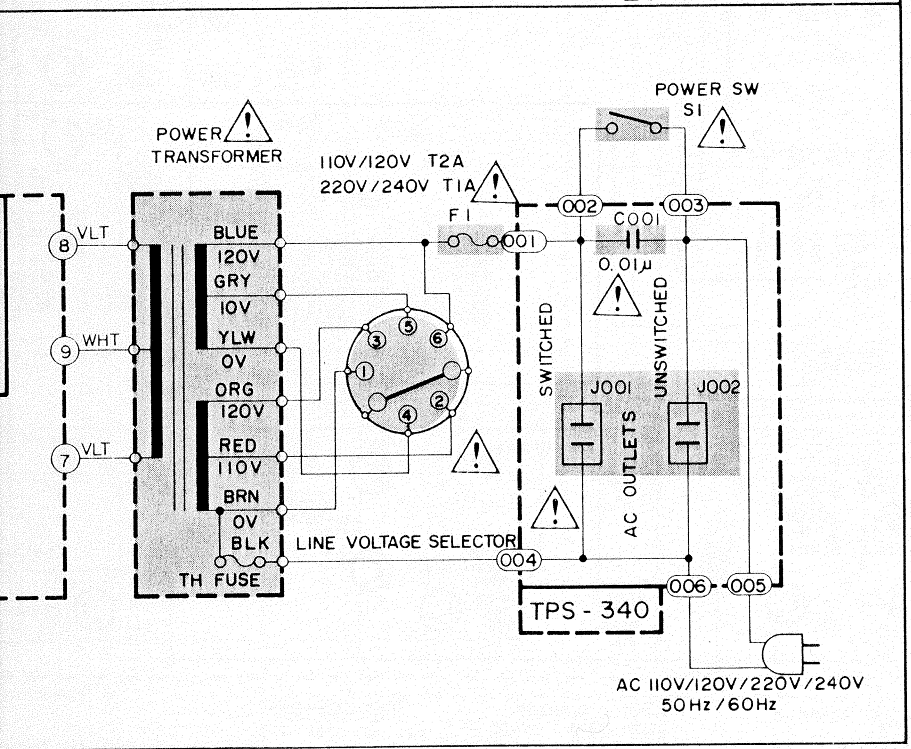


Q707, 708 : 2SA94
Q715, 716 : 2SC22
Q717, 718 : 2SA96
Q801 : 2SC22
Q802 : 2SA96

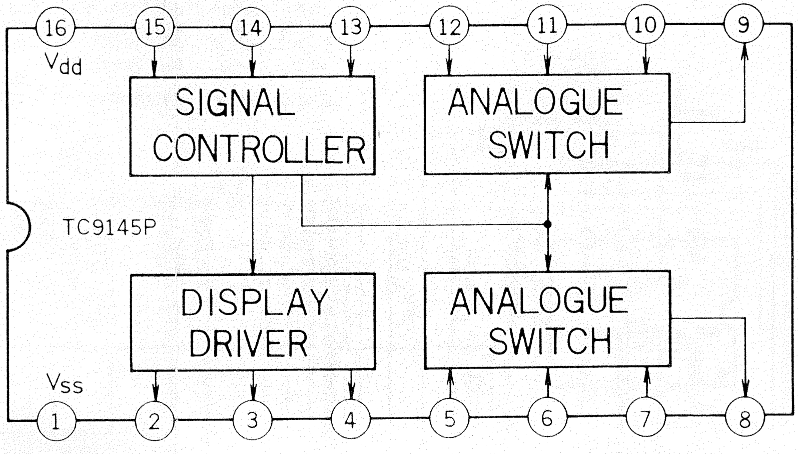
CONTINETAL EUROPE (G) WEST GERMANY AC220V~50Hz


POWER SW S1
POWER TRANSFORMER
TXX-363-6
RED
BLUE
240V
BLK
GRY
220V
RED
BRN
T.H.
0V
F1
T1A 250V
C1
0.01μ
AC220V~
50Hz
8
9
7
0
6
4
5
3
1
2

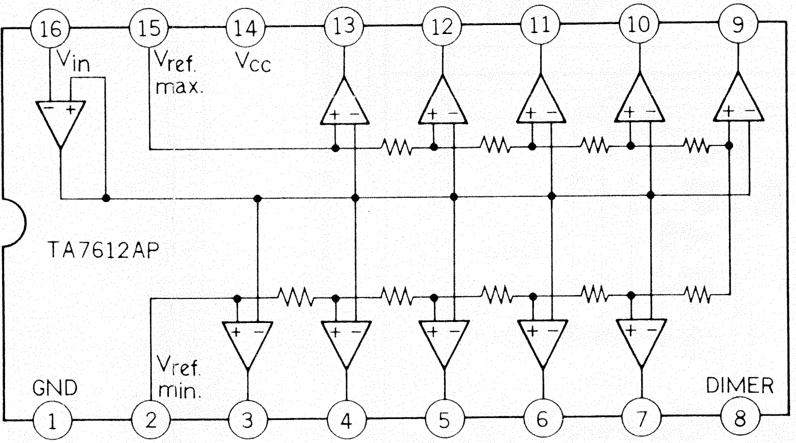
R OTHER COUNTRIES (P) FOR U.S. MILITARY AC110V/120V/220V 240V 50/60Hz


POWER SW S1
POWER TRANSFORMER
110V/120V T2A
220V/240V T1A
F1
VLT
WHT
VLT
BLUE
120V
GRY
10V
YLW
0V
ORG
120V
RED
110V
BRN
0V
BLK
TH FUSE
LINE VOLTAGE SELECTOR
C001
0.01μ
SWITCHED
UNSWITCHED
J001
J002
AC OUTLETS
001
002
003
004
005
006
TPS-340
AC 110V/120V/220V/240V
50Hz/60Hz

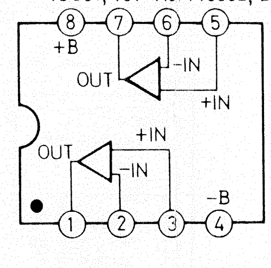
IC202, IC203: TC9145P


Vdd
SIGNAL CONTROLLER
ANALOGUE SWITCH
TC9145P
DISPLAY DRIVER
ANALOGUE SWITCH
Vss
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8

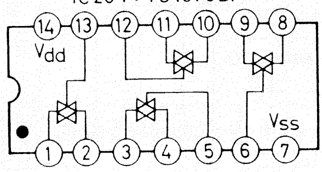
IC201: TA7612AP

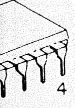

Vin
Vref. max.
Vcc
TA7612AP
GND
Vref. min.
DIMER
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8

IC 301, 401 : NJM4558D-D

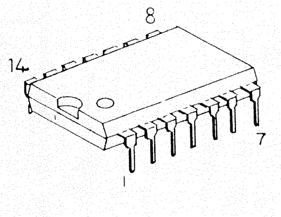

+B
OUT
-IN
+IN
OUT
+IN
-IN
-B
8 7 6 5
1 2 3 4

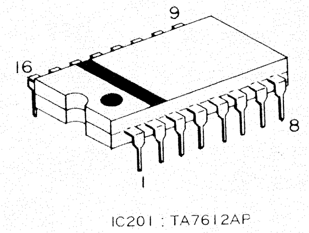
IC 204 : TC4016BP


Vdd
Vss
14 13 12 11 10 9 8
1 2 3 4 5 6 7

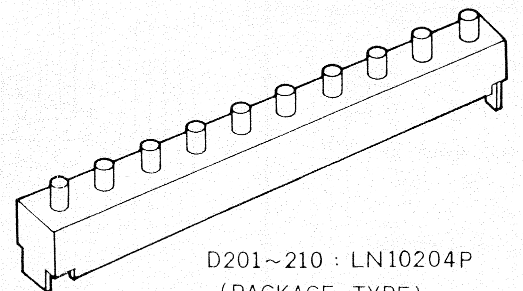


4558D
4558D-D

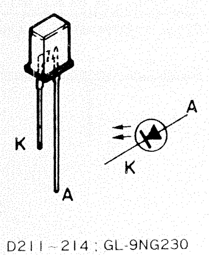




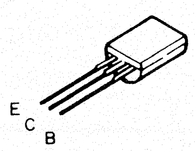
IC201 : TA7612AP
IC202, 203 : TC9145P



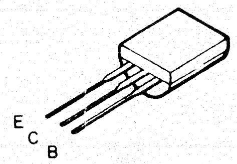
D201~210 : LN10204P
(PACKAGE TYPE)



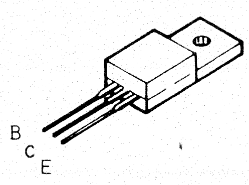
D211-214 : GL-9NG230



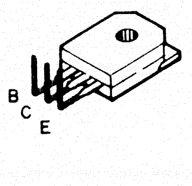
Q501-504 : 2SD655(E, F)
Q505, 506 : 2SC458(C)
Q701-704 : 2SC1775AV(F1)
Q705, 706 : 2SA1084(D, E)
Q709-712 : 2SC2546(E, F)
Q713, 714 : 2SA1084(D, E)
Q804, 805 : 2SA733A(P, Q)
Q901 : 2SA733A(P, Q)
Q902 : 2SA970(GR, BL)
Q903 : 2SA733A(P, Q)
Q904 : 2SD655(E, F)
Q951, 952 : 2SC458(C)



Q707, 708 : 2SA949(Y)
Q715, 716 : 2SC2235(Y)
Q717, 718 : 2SA965(Y)
Q801 : 2SC2235(O, Y)
Q802 : 2SA965(O, Y)

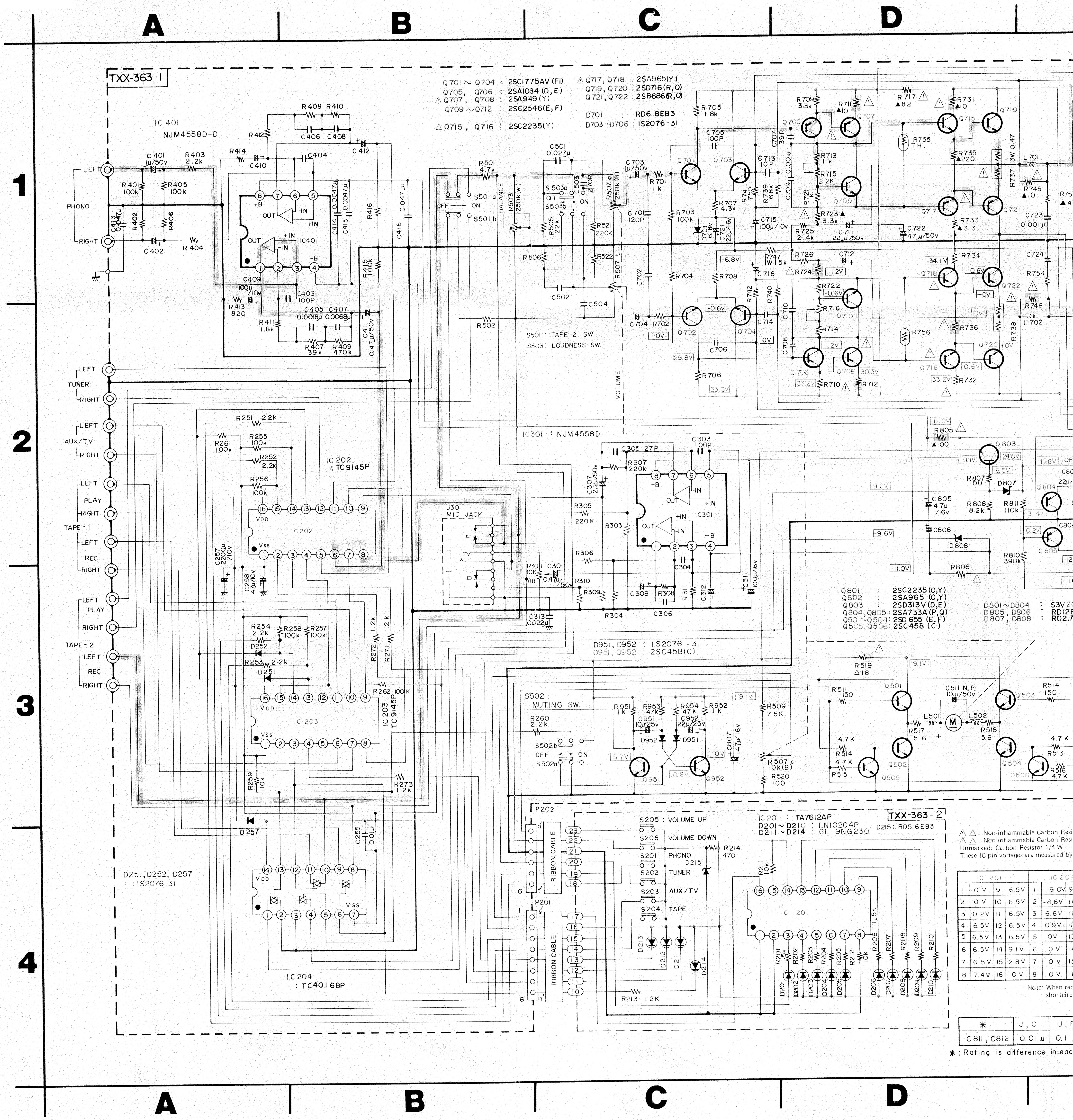


Q803 : 2SD313V(D, E)



Q719, 720 : 2SD716(R, O)
Q721, 722 : 2SB686(R, O)

A-E3 Schematic Diagram


A
B
C
D
1
2
3
4
TXX-363-1
TXX-363-2
IC 401 NJM4558D-D
IC301 : NJM4558D
IC 202 : TC9145P
IC 203 TC9145P
IC 204 : TC4016BP
IC 201 : TA7612AP
D201~D210 : LN10204P
D211~D214 : GL-9NG230
D215 : RD5.6EB3
D251, D252, D257 : 1S2076-31
D951, D952 : 1S2076-31
Q951, Q952 : 2SC458(C)
Q701 ~ Q704 : 2SC1775AV (FI)
Q705, Q706 : 2SA1084 (D, E)
⚠ Q707, Q708 : 2SA949 (Y)
Q709 ~ Q712 : 2SC2546(E, F)
⚠ Q715, Q716 : 2SC2235(Y)
⚠ Q717, Q718 : 2SA965(Y)
Q719, Q720 : 2SD716(R, O)
Q721, Q722 : 2SB686(R, O)
D701 : RD6.8EB3
D703 ~ D706 : 1S2076-31
Q801 : 2SC2235(O, Y)
Q802 : 2SA965 (O, Y)
Q803 : 2SD313V(D, E)
Q804, Q805 : 2SA733A(P, Q)
Q501~Q504 : 2SD655 (E, F)
Q505, Q506 : 2SC458 (C)
D801~D804 : S3V2
D805, D806 : RD12E
D807, D808 : RD2.7
PHONO
LEFT
RIGHT
TUNER
AUX/TV
TAPE-1
PLAY
REC
TAPE-2
J301 MIC JACK
S501 : TAPE-2 SW.
S503 : LOUDNESS SW.
S502 : MUTING SW.
BALANCE
VOLUME
RIBBON CABLE
P201
P202
S205 : VOLUME UP
S206 VOLUME DOWN
S201 PHONO
S202 TUNER
S203 AUX/TV
S204 TAPE-1
⚠ : Non-inflammable Carbon Resi
⚠ : Non-inflammable Carbon Resi
Unmarked: Carbon Resistor 1/4 W
These IC pin voltages are measured by
Note: When rep shortcirc
C811, C812
∗ : Rating is difference in eac

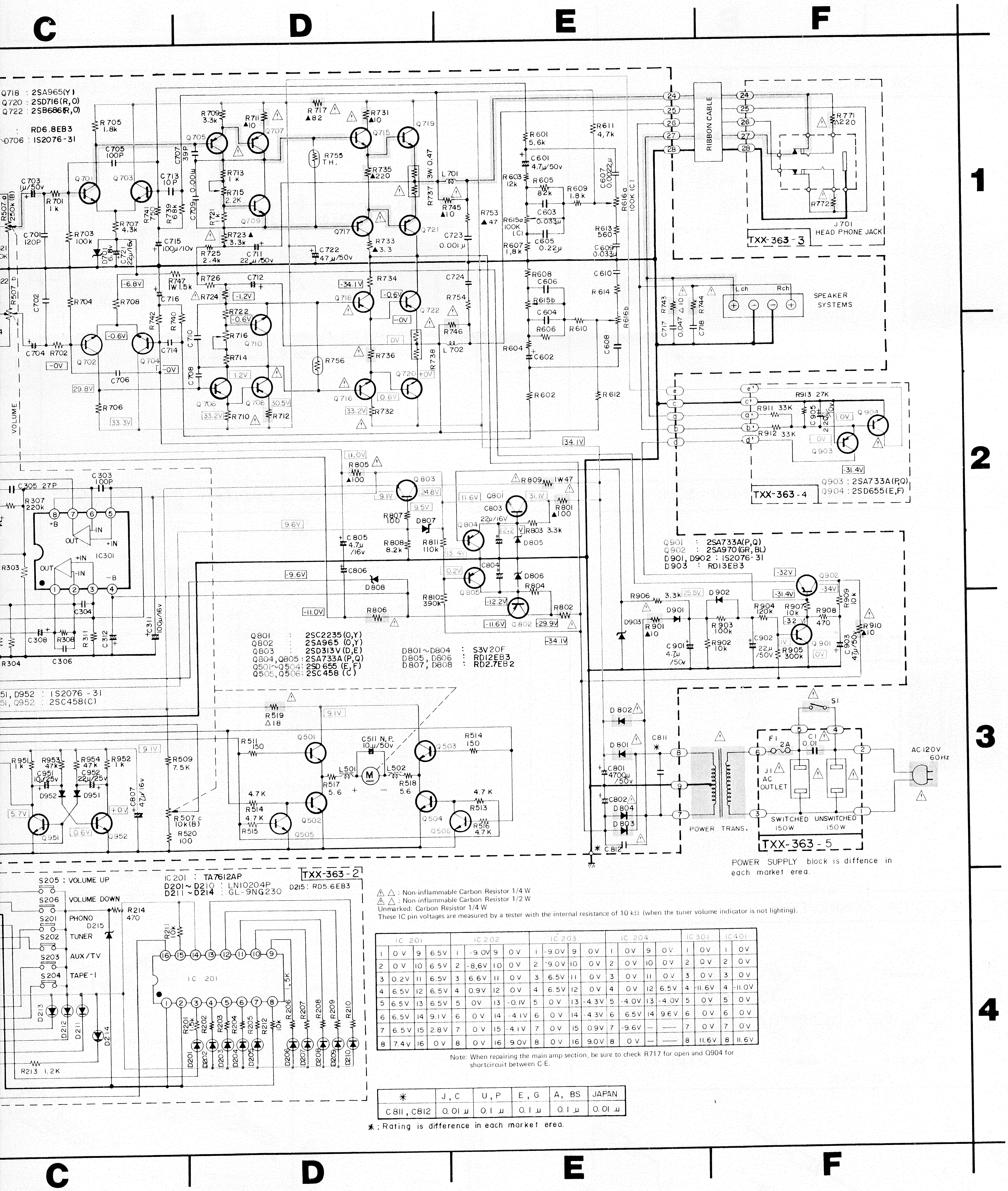
Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TXX-363	Main Amp. & Other Function Split P.C. Board Ass'y	8
TPS-340	AC Outlet P.C. Board Ass'y	12

Notes:

1. When replacing the parts in the darkened area ▨ and those marked with ⚠, be sure to use the designated parts to ensure safety.
2. ▨ indicates signal path.
3. ——— indicates positive B power supply.
4. ━━━ indicates negative B power supply.
5. Parts in red indicate transistors or ICs.
6. This is the standard circuit diagram.

The design and contents are subject to change without notice.


C
D
E
F
1
2
3
4
Q718 : 2SA965(Y)
Q720 : 2SD716(R,O)
Q722 : 2SB686(R,O)
RD6.8EB3
D706 : 1S2076-31
RIBBON CABLE
J701 HEAD PHONE JACK
TXX-363-3
SPEAKER SYSTEMS
Lch
Rch
TXX-363-4
Q903 : 2SA733A(P,Q)
Q904 : 2SD655(E,F)
Q901 : 2SA733A(P,Q)
Q902 : 2SA970(GR,BL)
D901, D902 : 1S2076-31
D903 : RD13EB3
Q801 : 2SC2235(O,Y)
Q802 : 2SA965(O,Y)
Q803 : 2SD313V(D,E)
Q804,Q805 : 2SA733A(P,Q)
Q501~Q504 : 2SD655(E,F)
Q505,Q506 : 2SC458(C)
D801~D804 : S3V20F
D805, D806 : RD12EB3
D807, D808 : RD2.7EB2
D951, D952 : 1S2076-31
Q951, Q952 : 2SC458(C)
IC301
VOLUME
POWER TRANS.
AC OUTLET
SWITCHED 150W
UNSWITCHED 150W
TXX-363-5
AC 120V 60Hz
S1
F1 2A
S205 : VOLUME UP
S206 VOLUME DOWN
S201 PHONO
S202 TUNER
S203 AUX/TV
S204 TAPE-1
IC 201 : TA7612AP
D201~D210 : LN10204P
D211~D214 : GL-9NG230
D215: RD5.6EB3
TXX-363-2
IC 201

POWER SUPPLY block is diffence in each market erea.

⚠ △ : Non-inflammable Carbon Resistor 1/4 W
⚠ △ : Non-inflammable Carbon Resistor 1/2 W
Unmarked: Carbon Resistor 1/4 W
These IC pin voltages are measured by a tester with the internal resistance of 10 kΩ (when the tuner volume indicator is not lighting).

IC 201				IC 202				IC 203				IC 204				IC 301		IC 401	
1	0 V	9	6.5V	1	-9.0V	9	0 V	1	-9.0V	9	0 V	1	0 V	9	0 V	1	0 V	1	0 V
2	0 V	10	6.5V	2	-8.6V	10	0 V	2	-9.0V	10	0 V	2	0 V	10	0 V	2	0 V	2	0 V
3	0.2V	11	6.5V	3	6.6V	11	0 V	3	6.5V	11	0 V	3	0 V	11	0 V	3	0 V	3	0 V
4	6.5V	12	6.5V	4	0.9V	12	0 V	4	6.5V	12	0 V	4	0 V	12	6.5V	4	-11.6V	4	-11.0V
5	6.5V	13	6.5V	5	0V	13	-0.1V	5	0 V	13	-4.3V	5	-4.0V	13	-4.0V	5	0 V	5	0 V
6	6.5V	14	9.1V	6	0 V	14	-4.1V	6	0 V	14	-4.3V	6	6.5V	14	9.6V	6	0 V	6	0 V
7	6.5V	15	2.8V	7	0 V	15	-4.1V	7	0 V	15	0.9V	7	-9.6V	—	——	7	0 V	7	0 V
8	7.4V	16	0 V	8	0 V	16	9.0V	8	0 V	16	9.0V	8	0 V	—	——	8	11.6V	8	11.6V

Note: When repairing the main amp section, be sure to check R717 for open and Q904 for shortcircuit between C-E.

✱	J, C	U, P	E, G	A, BS	JAPAN
C811, C812	0.01 µ	0.1 µ	0.1 µ	0.1 µ	0.01 µ

✱: Rating is difference in each market erea.

g the parts in the darkened area ▒ and
with ⚠ , be sure to use the designated parts
y.
s signal path.
s positive B power supply.
s negative B power supply.
dicate transistors or ICs.
ndard circuit diagram.
ontents are subject to change without notice.